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* * * * * Welcome to STN International * * * * *

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NEWS 3 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 4 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 5 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6 SEP 11 CA/CAplus enhanced with more pre-1907 records
NEWS 7 SEP 21 CA/CAplus fields enhanced with simultaneous left and right
truncation
NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19 E-mail format enhanced
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
NEWS 16 OCT 23 The Derwent World Patents Index suite of databases on STN
has been enhanced and reloaded
NEWS 17 OCT 30 CHEMLIST enhanced with new search and display field
NEWS 18 NOV 03 JAPIO enhanced with IPC 8 features and functionality
NEWS 19 NOV 10 CA/CAplus F-Term thesaurus enhanced
NEWS 20 NOV 10 STN Express with Discover! free maintenance release Version
8.01c now available
NEWS 21 NOV 13 CA/CAplus pre-1967 chemical substance index entries enhanced
with preparation role
NEWS 22 NOV 20 CAS Registry Number crossover limit increased to 300,000 in
additional databases
NEWS 23 NOV 20 CA/CAplus to MARPAT accession number crossover limit increased
to 50,000
NEWS 24 NOV 20 CA/CAplus patent kind codes will be updated
NEWS 25 DEC 01 CAS REGISTRY updated with new ambiguity codes

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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***** STN Columbus *****

FILE 'HOME' ENTERED AT 13:59:32 ON 05 DEC 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:59:44 ON 05 DEC 2006

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STRUCTURE FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

DICTIONARY FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

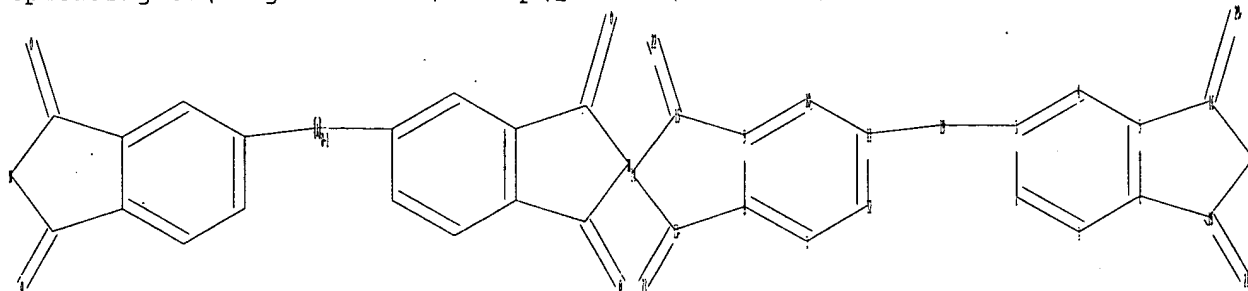
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10527630\Struc 1.str



chain nodes :

19 20 21 22 23

10527630.trn

Page 3

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

3-19 11-19 13-23 15-22 16-20 18-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-16 6-18 7-8 7-12 8-9 8-13 9-10 9-15 10-11
11-12 13-14 14-15 16-17 17-18

exact/norm bonds :

3-19 5-16 6-18 8-13 9-15 11-19 13-14 13-23 14-15 15-22 16-17 16-20
17-18 18-21

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:O

Match level :

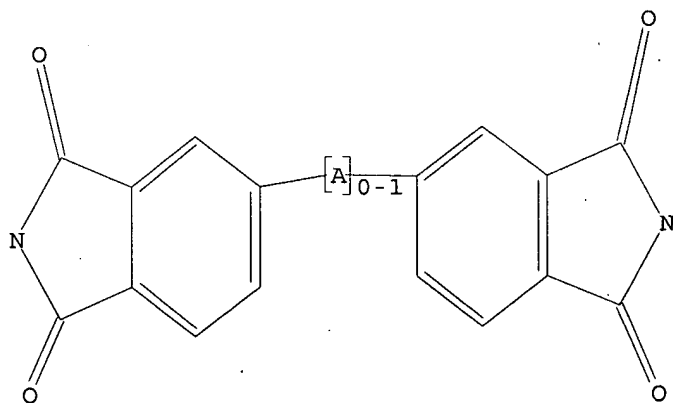
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O

Structure attributes must be viewed using STN Express query preparation.

=> l1

SAMPLE SEARCH INITIATED 14:00:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1245 TO ITERATE

100.0% PROCESSED 1245 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

10527630.trn

BATCH **COMPLETE**
 PROJECTED ITERATIONS: 22784 TO 27016
 PROJECTED ANSWERS: 6893 TO 9307

L2 50 SEA SSS SAM L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.32

1.53

FILE 'CAPLUS' ENTERED AT 14:01:33 ON 05 DEC 2006
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FILE COVERS 1907 - 5 Dec 2006 VOL 145 ISS 24
 FILE LAST UPDATED: 4 Dec 2006 (20061204/ED)

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<http://www.cas.org/infopolicy.html>

=> l2

L3 49 L2

=> l3 and polyimide

55551 POLYIMIDE

L4 46 L3 AND POLYIMIDE

=> d scan

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN
 CC 35-5 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 36, 73
 TI Preparation and characterization of new optically active
 poly(amide-imide)s derived from N,N-(4,4'-Oxydipthaloyl)-bis-(s)-(-)-
 valine diacid chloride and aromatic diamines
 ST polyamide polyimide oxydipthaloylbisvaline diacid diamine;
 oxydipthaloylbisvaline diacid monomer prepn polymn
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyether-; preparation and characterization of optically
 active poly(amide-imide)s derived from (oxydipthaloyl)bisvaline diacid
 chloride and aromatic diamines)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyether-poly sulfone-; preparation and characterization of
 optically active poly(amide-imide)s derived from
 (oxydipthaloyl)bisvaline diacid chloride and aromatic diamines)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-; preparation and characterization of
 optically active poly(amide-imide)s derived from
 (oxydipthaloyl)bisvaline diacid chloride and aromatic diamines)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-poly sulfone-; preparation and
 characterization of optically active poly(amide-imide)s derived from
 (oxydipthaloyl)bisvaline diacid chloride and aromatic diamines)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyether-polyimide-; preparation and characterization of
 optically active poly(amide-imide)s derived from
 (oxydipthaloyl)bisvaline diacid chloride and aromatic diamines)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyether-polyimide-poly sulfone-; preparation and
 characterization of optically active poly(amide-imide)s derived from
 (oxydipthaloyl)bisvaline diacid chloride and aromatic diamines)
 IT Glass transition temperature
 Thermal stability
 (preparation and characterization of optically active
 poly(amide-imide)s
 derived from (oxydipthaloyl)bisvaline diacid chloride and aromatic
 diamines)
 IT Optically active compounds
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and characterization of optically active
 poly(amide-imide)s
 derived from (oxydipthaloyl)bisvaline diacid chloride and aromatic
 diamines)
 IT 887769-20-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (monomer: preparation and polymerization of optically active
 (oxydipthaloyl)bisvaline diacid chloride monomer)

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 887769-21-3P 887769-22-4P 887769-23-5P 887769-24-6P 887769-25-7P
 887769-26-8P 887769-27-9P 887769-28-0P 887769-29-1P
 887769-30-4P 887769-31-5P 887769-32-6P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and characterization of optically active
 poly(amide-imide)s
 derived from (oxydipthaloyl)bisvaline diacid chloride and aromatic
 diamines)
 IT 72-18-4, (s)-Valine, reactions 1823-59-2, 4,4'-Oxydipthalic anhydride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and polymerization of optically active
 (oxydipthaloyl)bisvaline
 diacid chloride monomer)
 IT 887769-19-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and polymerization of optically active
 (oxydipthaloyl)bisvaline
 diacid chloride monomer)

NOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN
 CC 36-5 (Physical Properties of Synthetic High Polymers)
 TI Evaluation of the surface properties of BPDA-BAPE polyimide by
 using a quantitative imaging analysis
 ST biphenyltetracarboxylic dianhydride aminophenoxy ethane polyimide
 surface property quant imaging
 IT Surface tension
 (critical; surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT Hydrogen bond
 Liquids
 Polarity
 (effect on surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT Polyoxalkylenes, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (effect on surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT Contact angle
 (evaluation of surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT Solvent effect
 (on surface properties of biphenyltetracarboxylic dianhydride-
 bis(aminophenoxy)ethane polyimide by using quant. imaging
 anal.)
 IT Polyimides, properties
 RL: PRP (Properties)
 (polyether-; evaluation of surface properties of
 biphenyltetracarboxylic dianhydride-bis(aminophenoxy)ethane
 polyimide by using quant. imaging anal.)
 IT Polyethers, properties
 RL: PRP (Properties)
 (polyimide-; evaluation of surface properties of
 biphenyltetracarboxylic dianhydride-bis(aminophenoxy)ethane
 polyimide by using quant. imaging anal.)
 IT Surface tension
 (surface properties of biphenyltetracarboxylic dianhydride-
 bis(aminophenoxy)ethane polyimide by using quant. imaging
 anal.)
 IT Critical constant
 (surface tension; surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT 87-68-3, Hexachlorobutadiene 90-11-9, o-Bromonaphthalene
 106-93-4, 1,2-Dibromooethane 107-21-1, Ethylene glycol, uses 107-88-0,
 1,3-Butanediol, 111-46-6, Diethylene glycol, uses 111-65-9, Octane,
 uses 111-84-2, Nonane 124-18-5, Decane 544-76-3, Hexadecane
 629-59-4, Tetradecane 1120-21-4, Undecane 7732-18-5, Water, uses
 25167-20-8, Tetrabromoethane 25265-71-8, Dipropylene glycol
 25322-68-3, Polyethylene glycol
 RL: NUU (Other use, unclassified); USES (Uses)
 (effect on surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)
 IT 885019-61-4, 3,3',4,4'-Biphenyltetracarboxylic dianhydride-1,2-bis(4-
 aminophenoxy)ethane copolymer 885019-62-5, 3,3',4,4'-

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 Biphenyltetracarboxylic dianhydride-1,2-bis(4-aminophenoxy)ethane
 copolymer, sru
 RL: PRP (Properties)
 (evaluation of surface properties of biphenyltetracarboxylic
 dianhydride-bis(aminophenoxy)ethane polyimide by using quant.
 imaging anal.)

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN
 CC 35-5 (Chemistry of Synthetic High Polymers)
 TI Polyamide-imides bearing furan moieties. Part 1. Solution
 polycondensation
 of aromatic dianhydrides with 2-furoic acid dihydrazides
 ST polyamide polyimide furan unit prep
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-, fluorine-containing; preparation of polyamide-imides
 bearing furan
 moieties via solution polycondensation of aromatic dianhydrides with
 2-furoic
 acid dihydrazides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-, preparation of polyamide-imides bearing furan moieties
 via
 solution polycondensation of aromatic dianhydrides with 2-furoic acid
 dihydrazides)
 IT Polyketones
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-, fluorine-containing; preparation of
 polyamide-imides bearing furan moieties via solution polycondensation
 of
 aromatic dianhydrides with 2-furoic acid dihydrazides)
 IT Fluoropolymers, preparation
 Polyketones
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-, preparation of polyamide-imides bearing
 furan moieties via solution polycondensation of aromatic dianhydrides
 with
 2-furoic acid dihydrazides)
 IT Fluoropolymers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-polyketone-, preparation of polyamide-imides
 bearing furan moieties via solution polycondensation of aromatic
 dianhydrides
 with 2-furoic acid dihydrazides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyketone-, fluorine-containing; preparation of
 polyamide-imides
 bearing furan moieties via solution polycondensation of aromatic
 dianhydrides
 with 2-furoic acid dihydrazides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyketone-, preparation of polyamide-imides bearing furan
 moieties via solution polycondensation of aromatic dianhydrides with
 2-furoic
 acid dihydrazides)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-, fluorine-containing; preparation of polyamide-imides
 bearing furan moieties via solution polycondensation of aromatic
 dianhydrides

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN
 CC 35-5 (Chemistry of Synthetic High Polymers)
 TI New silicon-containing heterocyclic polyimides
 ST silicon heterocyclic polyimide
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polycarbosilane-polyether-, silicon-containing heterocyclic
 polyimides)
 IT Polyketones
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polycarbosilane-polyether-polyimide-,
 silicon-containing heterocyclic polyimides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polycarbosilane-polyether-polyketone-, silicon-containing
 heterocyclic polyimides)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polycarbosilane-polyimide-, silicon-containing
 heterocyclic polyimides)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polycarbosilane-polyimide-polyketone-,
 silicon-containing heterocyclic polyimides)
 IT Polycarbosilanes
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyether-polyimide-, silicon-containing heterocyclic
 polyimides)
 IT Polycarbosilanes
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyether-polyimide-polyketone-, silicon-containing
 heterocyclic polyimides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyether-, silicon-containing heterocyclic
 polyimides)
 IT Polyamides, preparation
 Polyketones
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyether-polyimide-, silicon-containing
 heterocyclic polyimides)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyether-polyimide-polyketone-,
 silicon-containing heterocyclic polyimides)
 IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyether-polyketone-, silicon-containing
 heterocyclic
 polyimides)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyimide-, silicon-containing heterocyclic
 polyimides)
 IT Polyethers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polycarbosilane-polyimide-polyketone-, silicon-containing
 heterocyclic polyimides)
 IT Polycarbosilanes
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 with 2-furoic acid dihydrazides)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-, preparation of polyamide-imides bearing furan
 moieties via solution polycondensation of aromatic dianhydrides with
 2-furoic
 acid dihydrazides)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-polyketone-, fluorine-containing; preparation of
 polyamide-imides bearing furan moieties via solution polycondensation
 of
 aromatic dianhydrides with 2-furoic acid dihydrazides)
 IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-polyketone-, preparation of polyamide-imides bearing
 furan moieties via solution polycondensation of aromatic dianhydrides
 with
 2-furoic acid dihydrazides)
 IT Glass transition temperature
 NMR (nuclear magnetic resonance)
 Solubility
 Thermal stability
 Viscosity
 (preparation of polyamide-imides bearing furan moieties via solution
 polycondensation of aromatic dianhydrides with 2-furoic acid
 dihydrazides)
 IT 404593-02-8P 777094-08-3P 777094-49-2P 777094-50-5P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (model compound; preparation of polyamide-imides bearing furan
 moieties via
 solution polycondensation of aromatic dianhydrides with 2-furoic acid
 dihydrazides)
 IT 777094-09-4P 777094-10-7P 777094-11-8P 777094-12-9P 777094-13-0P
 777094-14-1P 777094-15-2P 777094-16-3P 777094-17-4P 777094-18-5P
 777094-19-6P 777094-20-9P 777094-21-0P 777094-22-1P 777094-23-2P
 777094-24-3P 777094-25-4P 777094-26-5P 777094-27-6P 777094-28-7P
 777094-29-8P 777094-30-1P 777094-31-2P 777094-32-3P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of polyamide-imides bearing furan moieties via solution
 polycondensation of aromatic dianhydrides with 2-furoic acid
 dihydrazides)
 IT 89-32-7, 1,2,4,5-Benzenetetracarboxylic dianhydride 2421-28-5,
 3,3',4,4'-Benzophenonetetracarboxylic dianhydride 3326-71-4, 2-Furoic
 acid hydrazide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant for model compound; preparation of polyamide-imides bearing
 furan
 moieties via solution polycondensation of aromatic dianhydrides with
 2-furoic
 acid dihydrazides)

L4 46 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (polyether-polyimide-, silicon-contg. heterocyclic
 polyimides)
 IT Polycarbosilanes
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyether-polyimide-polyketone-, silicon-containing heterocyclic
 polyimides)
 IT Fluorescence
 Glass transition temperature
 Thermal stability
 (silicon-containing heterocyclic polyimides)
 IT 478812-48-5P 478812-49-6P 478812-50-9P 478812-51-0P 478812-52-1P
 478812-53-2P 478812-54-3P 478812-55-4P 637359-21-8P
 637359-22-9P 637359-23-0P 637359-24-1P 637359-25-2P
 637359-26-3P 637359-27-4P 637359-28-5P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (silicon-containing heterocyclic polyimides)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

Page 7

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.87

4.40

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:02:46 ON 05 DEC 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAJRK1626

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:12:33 ON 05 DEC 2006
FILE 'CAPLUS' ENTERED AT 14:12:33 ON 05 DEC 2006
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.87

4.40

=> polyimide

L5 55551 POLYIMIDE

=> l5 and deut?

161993 DEUT?

L6 87 L5 AND DEUT?

=> d ibib abs 81-87

L6 ANSWER 81 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:124594 CAPLUS

DOCUMENT NUMBER: 108:124594

TITLE: The use of on-line liquid chromatography/mass spectrometry and stable isotope techniques for the identification of budesonide metabolites

AUTHOR(S): Lindberg, Claes; Paulson, Jan; Edsbaecker, Staffan

CORPORATE SOURCE: Pharmacokinetic Lab., AB Draco, Lund, S-221 00, Swed.

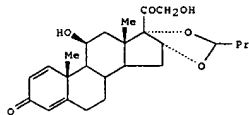
SOURCE: Biomedical & Environmental Mass Spectrometry (1987), 14(10), 535-41

CODEN: BEMSEN; ISSN: 0887-6134

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB A moving belt interface was used to identify budesonide (I) metabolites, obtained from rat and mouse liver incubations, by liquid chromatog./mass spectrometry (LC/MS). The metabolites were separated on a small-bore C18 column with an EtOH/water gradient as mobile phase at a flow rate of 0.2 mL/min. A spray device was used for deposition of the aqueous solvent on to the belt. Chemical ionization mass spectra were obtained with methane as the reagent gas. Deuterium-labeled I, which was used to facilitate metabolite identification by an isotope cluster technique, was slightly separated from the unlabeled analog on the LC column. Incubations were also performed under 18O2 to elucidate the mechanism of a new metabolic pathway (16u,17u-acetal splitting) and to confirm the oxidative nature of reactions leading to hydroxylated metabolites. The moving belt LC/MS technique afforded higher sensitivity, and gave more abundant MH- ions of the compds. studied, than previously found by direct probe mass spectrometry. Phthalate ester background, partly from the polyimide belt, complicated the identification of minor metabolites.

L6 ANSWER 83 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:50944 CAPLUS

DOCUMENT NUMBER: 106:50944

TITLE: Interdiffusion in polyimide thin films

AUTHOR(S): Kramer, E. J.; Volksen, W.; Russell, T. P.

CORPORATE SOURCE: Mater. Sci. Cent., Cornell Univ., Ithaca, NY, 14850, USA

SOURCE: Materials Research Society Symposium Proceedings (1986), 72(Electron. Packag. Mater. Sci. 2), 195-204

CODEN: MRSPPH; ISSN: 0272-9172

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The interdiffusion in thin films of 1,4-oxydianiline-pyromellitic dianhydride copolymer (I) [25039-81-7] and its perdeuterated form having thickness 5-10 µm and .apprx.300 Å, resp., was studied by forward recoil spectrometry (FRES) technique. The latter film was spin coated on the first layer and heated to a temperature (TD) to allow interdiffusion of the I films and imidization of the second coating. Depth profiling of the deuterated polymer by FRES showed that no interdiffusion occurred if $TI > TD$ and $TI > 200^\circ$ (TI = imidization temperature). Substantial interdiffusion occurred if $TD > TI$ and $TI < 400^\circ$. Time averaged tracer diffusion coefficient varied with the TD and TI as well as the length of time allowed for interdiffusion. Since conversion of the deuterated polyamic acid to polyimide occurred at the diffusion temperature, the results were consistent with a relatively large diffusion coefficient for the polyamic acid which decreased to a negligible value as the mol. was fully converted to the corresponding polyimide.

L6 ANSWER 82 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:478845 CAPLUS

DOCUMENT NUMBER: 107:78845

TITLE: Curing of N,N'-diglycidylimides with polyfunctional compounds

AUTHOR(S): Mantecon, A.; Cadiz, V.; Serra, A.; Martinez, P. A.

CORPORATE SOURCE: Dep. Quim. Org., Fac. Quim., Tarragona, 43005, Spain

SOURCE: European Polymer Journal (1987), 23(6), 461-8

CODEN: EUPJAG; ISSN: 0014-1057

DOCUMENT TYPE: Journal

LANGUAGE: English

AB N,N'-Diglycidylimides containing trimellitimide units were cured with m-phenylenediamine, 4,4'-diaminodiphenylmethane, or phthalic anhydride. Spectroscopic techniques were used to study the curing process. The course of reaction was followed by ¹³C-NMR spectra until the products became insol. in the deuterated solvents.

L6 ANSWER 84 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:488466 CAPLUS

DOCUMENT NUMBER: 103:88466

TITLE: Measurement of permeation constant of hydrogen for polyimide

AUTHOR(S): Uritani, Akira; Akaishi, Kenya; Ogawa, Yuichi; Hino, Toshihiko; Kataumura, Hiroshi

CORPORATE SOURCE: Inst. Plasma Phys., Nagoya Univ., Nagoya, Japan

SOURCE: Shinku (1985), 28(5), 321-3

CODEN: SHINAM; ISSN: 0559-8516

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB The H₂ and He permeability of polyimide and EPDM rubber films used as seals in torus vessel joints was measured with γ-ray dose as a parameter. With up to 200 Mrad irradiation, the rubber showed no changes in permeability, while permeability of the polyimide film increased .apprx.50%.

L6 ANSWER 85 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:596592 CAPLUS
 DOCUMENT NUMBER: 93:196592
 TITLE: Bonding material to a substrate
 INVENTOR(S): Thefaine, Yannick Jean Georges; Stupp, Edward Henry
 PATENT ASSIGNEE(S): N. V. Philips' Gloeilampenfabrieken, Neth.
 SOURCE: Brit. UK Pat. Appl., 3 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2031794	A	19800430	GB 1979-28726	19790817
GB 2031794	B2	19820818		

PRIORITY APPLN. INFO.: US 1978-935577 A 19780821

AB A pyroelec. material, e.g. triglycine sulfate, is attached to a polymer film for the manufacture of vidicon targets by exposing the film to moisture so that water is adsorbed, and contacting the surface with the pyroelec. material so that an elec. bond is formed. The moisture conditioning treatment is carried out by contact with steam, or by cooling the film before placing it in an atmospheric with relative humidity >70%. The preferred film is a 1000-2000-A-thick polyimide.

L6 ANSWER 86 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:48928 CAPLUS
 DOCUMENT NUMBER: 92:48928
 TITLE: Measurements of the permeation of hydrogen, deuterium and helium through polyimide films
 AUTHOR(S): Gassen, H. J.; Reichelt, T.
 CORPORATE SOURCE: Phys. Inst., Univ. Bonn, Bonn, Fed. Rep. Ger.
 SOURCE: Vakuum-Technik (1979), 28(7), 204-8
 CODEN: VAKTAY; ISSN: 0042-2266
 DOCUMENT TYPE: Journal
 LANGUAGE: German

AB The permeability of Kapton H polyimide film was measured for He, H and D in connection with the target technol. of high energy and nuclear physics. The permeation const. vary .apprx.3 orders of magnitude at +60 to -100° and are nearly equal for all 3 gases. The diffusion constant for He, however, is much larger than for H and D. Consequently, H and D are much more easily dissolved in the polyimide than is He.

L6 ANSWER 87 OF 87 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:151821 CAPLUS
 DOCUMENT NUMBER: 80:151821
 TITLE: Cryogenic target for A2H(γ,n) photon spectrometer
 AUTHOR(S): Sherman, N. K.
 CORPORATE SOURCE: Div. Phys., Natl. Res. Council, Canada, Ottawa, ON, Can.
 SOURCE: Nuclear Instruments & Methods (1974), 116(2), 301-15
 CODEN: NUIMAL; ISSN: 0029-554X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A cryogenic target facility built for the National Research Council e linear accelerator is described. It was designed to provide a 265 ml volume of liquid D in the form of a horizontal cylinder to be irradiated by bremsstrahlung. It is suitable for liquefaction of H or Ne also, and has been so used. When D (γ,n) photo-n are detected by the time-of-flight technique with a resolution of 0.4 nsec/m or better, the apparatus constitutes a useful spectrometer for photons of 5-50 MeV. The advantages of using liquid D are pointed out, and are illustrated by the low background achieved with a polyimide plastic target of light construction cooled to .apprx.20°K by a com. He refrigerator. The absence of d. changes owing to beam-included boiling of the liquid is demonstrated. For a total power input to the vacuum pump and refrigerator of .apprx.6 kW, a refrigerator power of 12.6 W at 23.6°K was obtained. The liquefaction rate gas supplied at 300°K was 2.65 ml of D per min, after a cool-down time of <1 hr after start-up. The He refrigerator and compressor gave >1650 hr of trouble-free operation. One target was cooled down 5 times from 300 to below 20°K and irradiated with bremsstrahlung for a total of .apprx.200 hr over a 6-month period, without loss of structural integrity. Results of measuring the bremsstrahlung spectral shape from a Ta radiator 0.51 mm thick irradiated with 25-MeV e are described, and agreed with the zero-angle, thin-radiator predictions of Schiff. Extensive refs. to the subject of D photodisintegration are given. The superiority of the D(γ,n)H reaction as a photon spectrometer reaction in the MeV energy range is emphasized.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

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FULL ESTIMATED COST

27.33

28.86

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SINCE FILE

TOTAL

ENTRY

SESSION

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-5.25

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DICTIONARY FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

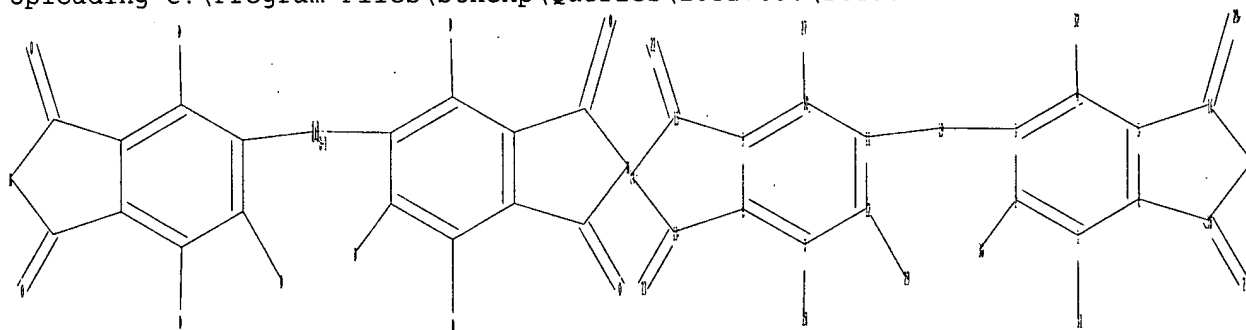
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

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chain nodes :

19 20 21 22 23 27 28 29 30 31 32

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

1-31 2-30 3-19 4-32 7-28 10-27 11-19 12-29 13-23 15-22 16-20 18-21

10527630.trn

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-16 6-18 7-8 7-12 8-9 8-13 9-10 9-15 10-11
11-12 13-14 14-15 16-17 17-18

exact/norm bonds :

3-19 5-16 6-18 8-13 9-15 11-19 13-14 13-23 14-15 15-22 16-17 16-20
17-18 18-21

exact bonds :

1-31 2-30 4-32 7-28 10-27 12-29

normalized bonds :

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G1:O

Match level :

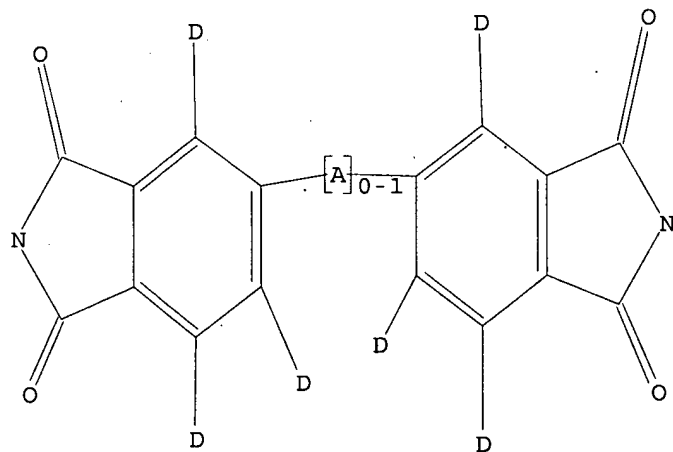
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20:CLASS 21:CLASS 22:CLASS 23:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:CLASS 32:CLASS

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



G1 O

Structure attributes must be viewed using STN Express query preparation.

=> 17

SAMPLE SEARCH INITIATED 14:15:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1245 TO ITERATE

100.0% PROCESSED 1245 ITERATIONS

0 ANSWERS

Page 12

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22784 TO 27016
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> 17 full
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100.0% PROCESSED 26569 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.01

L9 7 SEA SSS FUL L7

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.94	195.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 4 Dec 2006 (20061204/ED)

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=> 19
L10 1 L9

=> d ibib abs hitstr

10527630.trn

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:847214 CAPLUS
 DOCUMENT NUMBER: 141:350555
 TITLE: Perdeuterated polyimides, their preparation process, and their use as transparent materials in the 2500-3500 cm⁻¹ zone
 INVENTOR(S): Anselmi, Elise; Reby, Jacques; Balland Longeau, Alexia;
 PATENT ASSIGNEE(S): Calonne, Marc
 SOURCE: Commissariat a l'Energie Atomique, Fr.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

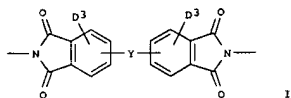
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2853655	A1	20041015	FR 2003-50090	20030408
FR 2853655	B1	20050513		
CA 2497079	AA	20041028	CA 2004-2497079	20040406
WO 2004092249	A1	20041028	WO 2004-FR50145	20040406

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 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, HL, HR, NE, SN, TD, TG

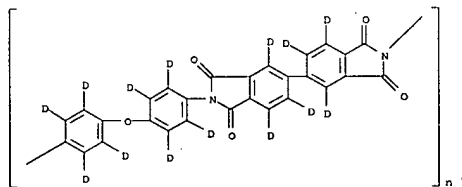
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 WO 2004-FR50145 W 20040406

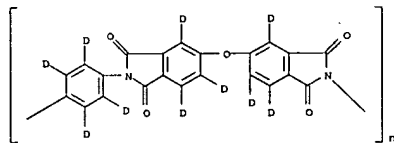
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L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 diyl-4,4',6,6',7,7'-d6)-1,4-phenylene-2,3,5,6-d4-oxy-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)



RN 770735-66-5 CAPLUS
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl-4,6,7-d3)oxy(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl-4,6,7-d3)-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)

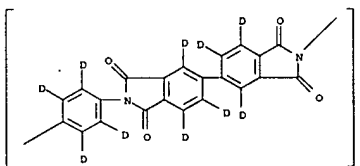


RN 770735-68-7 CAPLUS
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl-4,6,7-d3)oxy(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl-4,6,7-d3)-1,4-phenylene-2,3,5,6-d4-oxy-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)

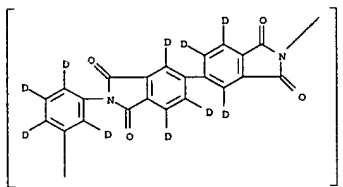
L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB Deuterated polyimides with transparency in the 2500-3500 cm⁻¹ zone, useful in laser devices, have 2l repeating unit I (Y = single bond or spacer group) and 2l A12 repeating unit (A1 = perdeuterated C6-10 aryl, Z = OC6D4, COC6D4, or C6D4) and are manufactured by imidization of the corresponding polyamic acids.

IT 770735-57-4P 770735-60-9P 770735-62-1P
 770735-66-5P 770735-68-7P 770735-71-2P
 770735-73-4P
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (perdeuterated polyimides with good transparency in IR)
 RN 770735-57-4 CAPLUS
 CN Poly[(1,1',3,3'-tetrahydro-1,1',3,3'-tetraoxo[5,5'-bi-2H-isoindole]-2,2'-diyl-4,4',6,6',7,7'-d6)-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)

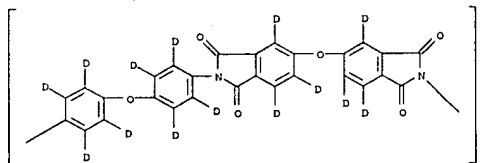


RN 770735-60-9 CAPLUS
 CN Poly[(1,1',3,3'-tetrahydro-1,1',3,3'-tetraoxo[5,5'-bi-2H-isoindole]-2,2'-diyl-4,4',6,6',7,7'-d6)-1,3-phenylene-2,4,5,6-d4) (9C1) (CA INDEX NAME)

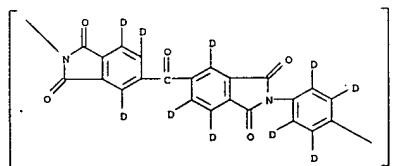


RN 770735-62-1 CAPLUS
 CN Poly[(1,1',3,3'-tetrahydro-1,1',3,3'-tetraoxo[5,5'-bi-2H-isoindole]-2,2'-

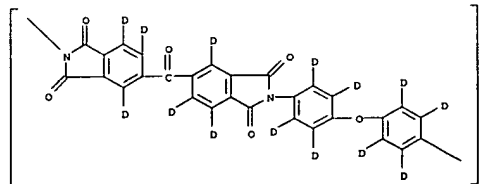
L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 770735-71-2 CAPLUS
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl-4,6,7-d3)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl-4,6,7-d3)-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)



RN 770735-73-4 CAPLUS
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl-4,6,7-d3)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl-4,6,7-d3)-1,4-phenylene-2,3,5,6-d4-oxy-1,4-phenylene-2,3,5,6-d4) (9C1) (CA INDEX NAME)



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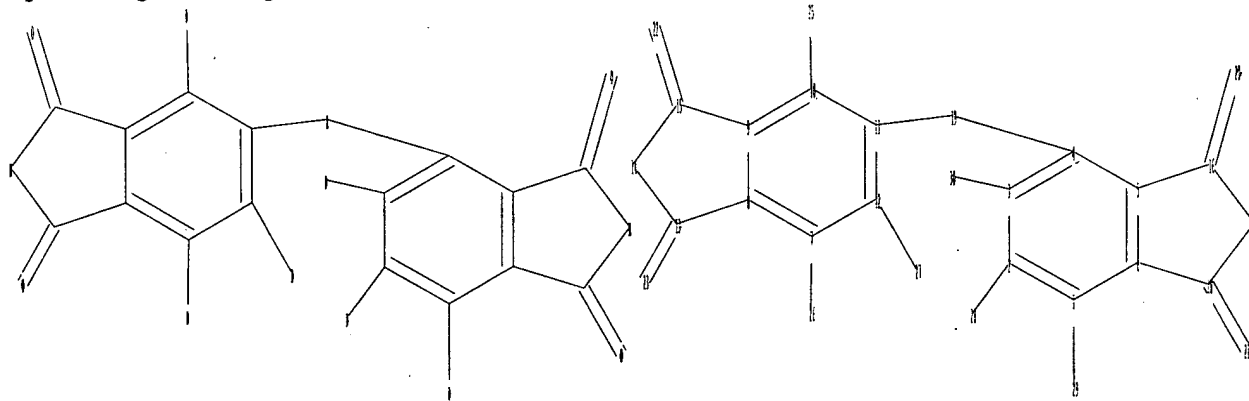
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chain nodes :

19 20 21 22 23 25 26 27 28 29 30

ring nodes :

10527630.trn

Page 16

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1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18
chain bonds :
1-29 2-28 3-30 4-19 7-26 10-25 11-19 12-27 13-23 15-22 16-20 18-21
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  5-16  6-18  7-8  7-12  8-9  8-13  9-10  9-15 10-11
11-12 13-14 14-15 16-17 17-18
exact/norm bonds :
4-19 5-16 6-18 8-13 9-15 11-19 13-14 13-23 14-15 15-22 16-17 16-20
17-18 18-21
exact bonds :
1-29 2-28 3-30 7-26 10-25 12-27
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10 10-11 11-12
```

G1:O

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS
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L11 STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED - 1135 TO ITERATE
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100.0% PROCESSED 1135 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
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PROJECTED ANSWERS: 0 TO 0
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L12 0 SEA SSS SAM L11

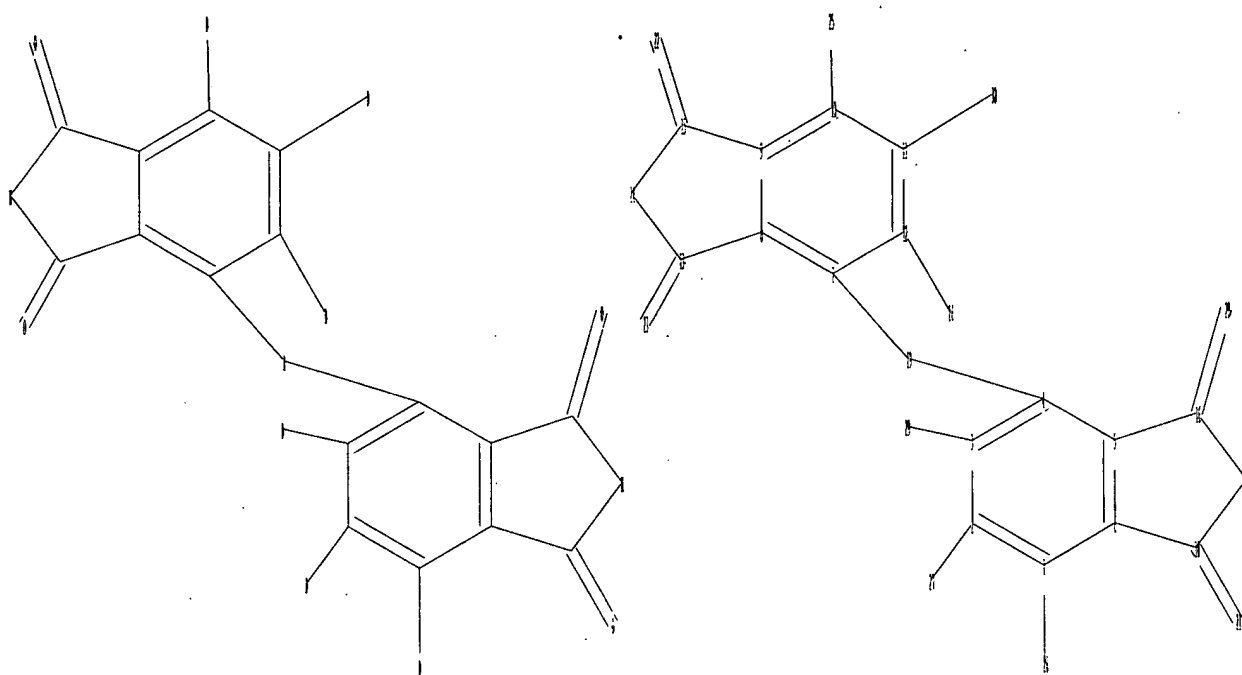
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100.0% PROCESSED 24582 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
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L13 0 SEA SSS FUL L11

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10527630.trn



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ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
1-28 2-27 3-29 4-19 7-19 10-25 11-30 12-26 13-23 15-22 16-20 18-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-16 6-18 7-8 7-12 8-9 8-13 9-10 9-15 10-11
11-12 13-14 14-15 16-17 17-18
exact/norm bonds :
4-19 5-16 6-18 7-19 8-13 9-15 13-14 13-23 14-15 15-22 16-17 16-20 17-18
18-21
exact bonds :
1-28 2-27 3-29 10-25 11-30 12-26
normalized bonds :
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G1:O

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS

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L14 STRUCTURE UPLOADED

10527630.trn

=> d

L14 HAS NO ANSWERS

L14 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> l14

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SAMPLE SCREEN SEARCH COMPLETED - 1135 TO ITERATE

100.0% PROCESSED 1135 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 20679 TO 24721

PROJECTED ANSWERS: 0 TO 0

L15 0 SEA SSS SAM L14

=> l14 full

FULL SEARCH INITIATED 14:19:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 24582 TO ITERATE

100.0% PROCESSED 24582 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L16 0 SEA SSS FUL L14

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

334.32

537.07

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-6.00

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:19:16 ON 05 DEC 2006